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241:00, 221:00)Verona (IT), **SPADA, Simone** [IT/IT]; GlaxoSmithKline  
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
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SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.(71) Applicant (*for all designated States except US*): **GLAXO  
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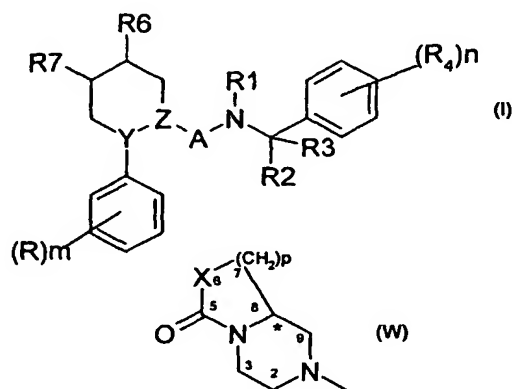
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: PIPERIDINE DERIVATIVES

(57) Abstract: The present invention relates to piperidine derivatives of formula (I): R represents halogen or C<sub>1-4</sub> alkyl; R<sub>1</sub> represents C<sub>1-4</sub> alkyl; R<sub>2</sub> or R<sub>3</sub> independently represent hydrogen or C<sub>1-4</sub> alkyl; R<sub>4</sub> represents trifluoromethyl, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, trifluoromethoxy or halogen; R<sub>5</sub> represents hydrogen, C<sub>1-4</sub> alkyl or C<sub>3-7</sub> cycloalkyl; R<sub>6</sub> is hydrogen and R<sub>7</sub> is a radical of formula (W); R<sub>6</sub> is a radical of formula (W) and R<sub>7</sub> is hydrogen; X represents CH<sub>2</sub>, NR<sub>5</sub> or O; Y represents Nitrogen and Z is CH or Y represents CH and Z is Nitrogen; A represents C(O) or S(O)<sub>q</sub>, provided that when Y is nitrogen and Z is CH, A is not S(O)<sub>q</sub>; m is zero or an integer from 1 to 3; n is an integer from 1 to 3; p and q are independently an integer from 1 to 2; and pharmaceutically acceptable salts and solvates thereof. The process for their preparation and their use in the treatment of condition mediated by tachykinins.

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/01308

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C07D487/04 A61K31/4985 A61P25/00 C07D498/04 C07D471/04  
 //(C07D487/04,241:00,209:00),(C07D498/04,263:00,241:00),  
 (C07D487/04,241:00,235:00),(C07D471/04,241:00,221:00),

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 16440 A (JANSSEN ) 9 May 1997 (1997-05-09) page 16, line 18 - line 22; claims 1,12	1,13
A	WO 02 00631 A (FUJISAWA) 3 January 2002 (2002-01-03) claims 1,8	1,13
P,A	WO 02 32867 A (GLAXO) 25 April 2002 (2002-04-25) claims 1,9	1,13
P,A	WO 02 055518 A (FUJISAWA) 18 July 2002 (2002-07-18) claims 1,8	1,13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*P\* document published prior to the International filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- \*G\* document member of the same patent family

Date of the actual completion of the International search

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08/05/2003

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IPC 7 (C07D487/04, 241:00, 239:00), (C07D498/04, 265:00, 241:00)

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP 03/01308

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claim 16 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/01308

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			WO 02055518 A1	18-07-2002